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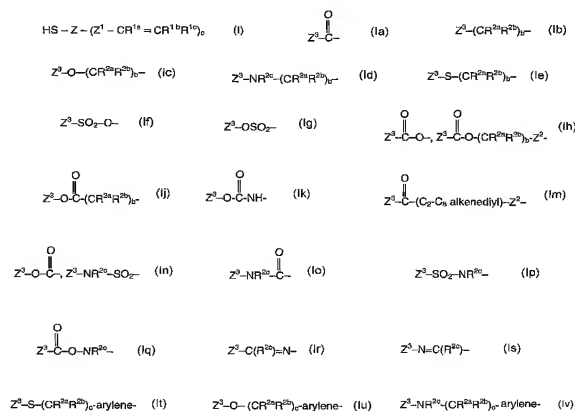
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(54) Title: LITHOGRAPHIC PRINTING PLATE PRECURSORS WITH MERCAPTO-FUNCTIONALIZED FREE-RADICAL POLYMERIZABLE MONOMERS



(57) Abstract: Lithographic printing plate precursor comprising: a) an untreated or pretreated substrate and b) a radiation-sensitive coating comprising: (i) at least one polymeric binder soluble or swellable in aqueous alkaline developers; (ii) at least one free-radical polymerizable monomer and/or oligomer comprising at least one non-aromatic C-C double bond and at least one SH group in the molecule; and (iii) a radiation-sensitive initiator or initiator system for free-radical polymerization, wherein component (ii) has the formula (I) wherein each R<sup>1a</sup>, R<sup>1b</sup> and R<sup>1c</sup> is independently selected from H, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>8</sub> alkenyl, aryl, halogen, CN and COOR<sup>1d</sup>, wherein R<sup>1d</sup> is H, C<sub>1</sub>-C<sub>18</sub> alkyl, C<sub>2</sub>-C<sub>8</sub> alkenyl, C<sub>2</sub>-C<sub>8</sub> alkynyl or aryl; and Z is an aliphatic, heterocyclic or heteroaromatic spacer or a combination of two or more thereof, wherein Z can optionally comprise one or more additional SH groups and/or one or more additional non-aromatic C-C double bonds; and each Z<sup>1</sup> is independently selected from a single bond, formulae (Ia), (Ib), (Ic), (Id), (Ie), (If), (Ig), (Ih), (Ij), (Ik), (Im), (In), (Io), (Ip), (Iq), (Ir), (Is), (It), (Iu), (Iv), wherein R<sup>2a</sup>, R<sup>2b</sup> and R<sup>2c</sup> are independently selected from H, C<sub>1</sub>-C<sub>6</sub> alkyl and aryl, Z<sup>2</sup> is selected from a single bond, O, S and NR<sup>2c</sup>, Z<sup>3</sup> is a single bond which is connected to Z, b is an integer from 1 to 10 and c is an integer from 1 to 3.



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